PATENT
Reply under 37 CFR 1.116
EXPEDITED PROCEDURE
Group 3745

AMENDMENT(S) TO THE CLAIMS

1. (Currently Amended) A hydraulic system, comprising:

a hydraulic pressure source;

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a hydraulic transformer having an inlet and an outlet, said inlet coupled with said pressure source, said transformer being adjustable to control pressure amplification of a fluid flowing therethrough;

at least one hydraulic motor having an output shaft and being adjustable to provide at least one of a controlled output speed and output torque associated with said output shaft; and

a bypass valve operatively coupling at least one said motor to selectively receive fluid flow from either said pressure source or said hydraulic transformer outlet, dependent upon an operating characteristic associated with at least one said hydraulic motor.

2. (Original) The hydraulic system of claim 1, including a hydraulic load coupled with at least one said hydraulic motor, said bypass valve fluidly coupling at least one said motor selectively either with said pressure source or said hydraulic transformer outlet, dependent upon an operating characteristic associated with said hydraulic load.

3. (Cancelled)

4. (Original) The hydraulic system of claim 1, said bypass valve fluidly coupling said hydraulic transformer inlet with said hydraulic transformer outlet.

5. (Original) The hydraulic system of claim 1, said bypass valve being a normally open valve.

6. (Original) The hydraulic system of claim 5, said bypass valve being one of separate from and integral with said hydraulic transformer.

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7. (Original) The hydraulic system of claim 6, said hydraulic transformer including a bypass port, said bypass valve including said bypass port.

8. (Currently Amended) A work machine, comprising:

a frame; and

a hydraulic system including:

a hydraulic pressure source;

a hydraulic transformer having an inlet and an outlet, said inlet coupled with said pressure source, said transformer being adjustable to control pressure amplification of a fluid flowing therethrough;

at least one hydraulic motor having an output shaft and being adjustable to provide at least one of a controlled output speed and output torque associated with said output shaft; and

a bypass valve operatively coupling at least one said motor to selectively receive fluid flow from either said pressure source or said hydraulic transformer outlet, dependent upon an operating characteristic associated with at least one said hydraulic motor.

9. (Currently Amended) A hydraulic system, comprising:

a hydraulic pressure source;

a hydraulic transformer having an inlet and an outlet, said inlet coupled with said pressure source, said transformer being adjustable to control pressure amplification of a fluid flowing therethrough; and

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a plurality of hydraulic motors, each said hydraulic motor being fluidly coupled in a parallel manner with said pressure source, at least two of said hydraulic motors having an output shaft and being adjustable to provide at least one of a controlled output speed and output torque associated with said output shaft and being configured with different operating ranges.

10. (Previously Amended) The hydraulic system of claim 9, including a bypass valve fluidly coupling at least one said motor to selectively receive fluid flow from either said pressure source or said hydraulic transformer outlet, dependent upon an operating characteristic associated with at least one said hydraulic motor.

11. (Previously Amended) The hydraulic system of claim 9, one of said plurality of motors being coupled with said pressure source and an other of said plurality of motors being directly coupled with a corresponding said hydraulic transformer.

12. (Original) The hydraulic system of claim 11, said one motor being configured with a higher efficiency operating range when operating at a higher speed and lower torque, when compared with said other motor.

13. (Currently Amended) A work machine, comprising:

a frame; and

a hydraulic system including:

a hydraulic pressure source;

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a hydraulic transformer having an inlet and an outlet, said inlet coupled with said pressure source, said transformer being adjustable to control pressure amplification of a fluid flowing therethrough; and

a plurality of hydraulic motors, each said hydraulic motor being fluidly coupled in a parallel manner with said pressure source, at least two of said hydraulic motors having an output shaft and being adjustable to provide at least one of a controlled output speed and output torque associated with said output shaft and being configured with different operating ranges.